

Jenis Dokumen: FORMULIR	No. Revisi: 2
Judul Dokumen: OLAP LIMIT RECOMMENDATION	Tanggal Revisi: 10 Mei 2010
No. Dokumen: ALP-FML-TES-003	

OLAP LIMIT RECOMMENDATION

No	Classification	Application	Viscosity	FP	W	SD	PI	A	B	O2	Ni	SO	FD	CR	Active Metals (%w)					Wear Metals (ppm)								
			cSt	PM	%v	%v	%v	%	%	FTIR (abs/cm)	%v	%w	Ca	Mg	Zn	P	S	Fe	Al	Cr	Cu	Pb	Sn	Si				
1	Hydraulic Oils	Plus circul filter	-10% +10%	180	.1	.1		200									50	50		15	3	3	12	12	12	12		
		Non circul filter	-10% +10%	180	.1	.1		200										50	50		25	10	10	20	15	15	20	
		Non AW oils	-10% +10%	180	.1	.1		200													25	10	10	20	15	15	15	
2	Gear Oils	Indust Non EP	-10% +10%	180	.2	.2		200											50	50								
		Indust EP	-10% +10%	180	.2	.2		200												50	50	150	20	10	30	40	20	30
		Manual Trans	-10% +15%	180	.1	.2		200												50	50	300	30	10	70	50	40	25
		Matic Trans	-10% +15%	180	.1	.2		200												50	50	80	40	10	250	250	200	30

ALP PT. ALP Petro Industry

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		Differential & Axle	-10% +15%	180	.1	.2		200									50	50	400	30	15	180	70	50	25
3	Compressor Oils	Rotary (oil flooded)	-10% +20%	180	.2		1.0	400											30	12	10	35	15	20	20
		Rotary (oil free)	-10% +10%	180	.1	.1		200											25	10	10	20	15	15	20
		Reciprocating	-10% +20%	180	.2	.2		400											20	5	3	30	20	30	15
4	Turbine Oils	Gas Turbine	-10% +10%	180	.0 3	.1		200											15	15	15	25	25	20	25
		Steam / Circul	-10% +10%	180	.1	.1		200											25	10	10	20	15	15	20
5	Single Grade Diesel Oils	Stationary	-20% +20%	180	.3		1.2		50	25	40	50	5		50	50			100	15	12	60	50	60	15
		Mobile	-20% +20%	180	.3		2.0		50	30	50	100	5		50	50			130	18	15	65	60	75	20
6	Single Grade Gasol Oils	Stationary	-20% +20%	160	.3		1.2		50	25	40	15	.3		50	50			180	25	15	80	75	90	15
		Mobile	-20% +20%	160	.3		2.0		50	30	50	30	.3		50	50			230	30	20	90	85	100	20
7	Multi Grade Diesel Oils	Stationary	-25% +15%	180	.3		1.2		50	25	40	50	5		50	50			100	15	12	60	50	60	15
		Mobile	-25% +15%	180	.3		2.0		50	30	50	100	5		50	50			130	18	15	65	60	75	20

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8	Multi Grade Gasol Oils	Stationary	-25% +15%	160	.3		1.2		50	25	40	15	.3		50	50				180	25	15	80	75	90	15
		Mobile	-25% +15%	150	.3		2.0		50	30	50	30	.3		50	50				230	30	20	90	85	100	20
9	Heat Transfer Oils	Open / Closed	-10% +30%	180	.1	.2	1.0	400					1						15	5	3	5	15	15	15	

Jika pelanggan dan/atau manual peralatan/mesin tidak meminta/menyajikan limit/batasan, maka limit/batasan di atas dapat dipakai sebagai acuan OLAP dengan tetap mengutamakan trending hasil analisa.