

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine

Fluid

MOBIL DELVAC 1300 SUPER 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

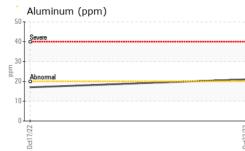
Fluid Condition

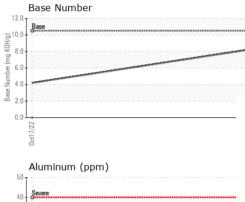
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

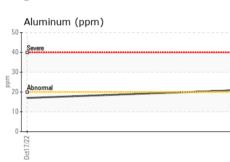
TS)			0ct2022	0ct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088635	PCA0051780	
Sample Date		Client Info		23 Oct 2023	17 Oct 2022	
Machine Age	mls	Client Info		187490	0	
Oil Age	mls	Client Info		187490	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ATTENTION	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59	74	
Chromium	ppm	ASTM D5185m	>20	2	3	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	21	17	
Lead	ppm	ASTM D5185m	>40	3	13	
Copper	ppm	ASTM D5185m	>330	13	107	
Tin	ppm	ASTM D5185m	>15	0	1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	15	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		48	71	
Manganese	ppm	ASTM D5185m		<1	4	
Magnesium	ppm	ASTM D5185m		644	603	
Calcium	ppm	ASTM D5185m		1680	1824	
Phosphorus	ppm	ASTM D5185m		983	1107	
Zinc	ppm	ASTM D5185m		1266	1482	
Sulfur	ppm	ASTM D5185m		3057	2588	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	11	
Sodium	ppm	ASTM D5185m		3	4	
Potassium	ppm	ASTM D5185m	>20	65	52	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	8.5	16.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	31.0	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	34.0	
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	8.2	4.2	
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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
0ct23/23	Appearance	scalar	*Visual	NORML	NORML	NORML	
06ť	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	11.9	14.1	12.9	
	GRAPHS						
	Ferrous Alloys						
	⁸⁰						
	70 - chromium						
	60 - nickel						
	50						
	틆 40						
	30						
	20-						
	10						
	22/1			3/23			
	0ct17/22			0ct23/23			
	Non-ferrous Metal	s					
	120 copper						
	100						
	80						
	Ē 60-						
	40						
	20						
			4=============================	and the second to			
				3/23			
	0ct17/22			0ct23/23			
	▲ Viscosity @ 100°C	2			Base Number		
	¹⁶			12.0			
	15			10.0	Base		
	14 - Abnormal						
	⊋ ¹³			0.8 KOH(d) 6.0.9 8ase Number (mg KOH(d)	1		
	0,013 12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		******	للال الم			
				N. 4.0			
	Abnormal			2.0			
	9						
	52			0.0	22		
	0ct17/22			0ct23/23	0ct17/22		
lahanatan	MoorObaals 100						
Laboratory Sample No.	: WearCheck USA - 5 : PCA0088635	501 Madia Recieve o		iry, NC 27513 Jan 2024		MIDWEST MOT 2169	OR EXPRES MUSTANG D
Lab Number		Diagnos		Jan 2024 Jan 2024			IDS VIEW, M
Unique Number		Diagnost		athan Hester			US 5511
ificate L2367 Test Package				_			FRANK DIET
discuss this sample report,							@mmeinc.co
Denotes test methods that a					ICCM 106-0010		(763)225-638
ements of conformity to spe					ICGM 106-2012		F· ·

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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