

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area [62005497413] Machine Id 90

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

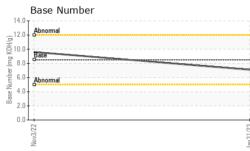
SAMPLE INFORMATION method imit/base current history1 history2 Sample Number Client Info 31 Jan 2023 03 Nov 2022 Sample Date mls Client Info 204647 199454 Machine Age mls Client Info 0 0 Oil Age mls Client Info N/A Not Changd Sample Status Imit/base current history1 history2 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG NEG WAter WC Method >0.2 NEG NEG WeAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >0.0 <1.0 Kear METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m	Sample Number Sample Date Machine Age mls Oil Age mls Oil Changed Sample Status CONTAMINATION Fuel Vater Glycol VEAR METALS Iron ppm Chromium ppm Nickel ppm	Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m	Imit/base >5 >0.2 Imit/base >100 >20	WC0723363 31 Jan 2023 204647 0 N/A NORMAL Current <1.0 NEG NEG Current 40	WC0723374 03 Nov 2022 199454 0 Not Changd NORMAL history1 <1.0 NEG NEG history1 22	 history2 history2
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Tin ppm ASTM D5185m >15 0 <1	Lead ppm	ASTM D5185m	>40	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 250 44 58 Barium ppm ASTM D5185m 10 0 0 Molybdenum ppm ASTM D5185m 100 21 20 Maganese ppm ASTM D5185m 100 21 <1	Copper ppm	ASTM D5185m	>330	2	1	
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Manganese ppm ASTM D5185m <1	Barium ppm	ASTM D5185m	10	0	0	
Magnesium ppm ASTM D5185m 450 630 638 Calcium ppm ASTM D5185m 3000 1560 1507 Phosphorus ppm ASTM D5185m 1150 1042 1030 Zinc ppm ASTM D5185m 1350 1263 1299 Sulfur ppm ASTM D5185m 4250 4048 4331	Molybdenum ppm	ASTM D5185m	100	21	20	
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	11					
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	CONTAMINANTS	method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m >25 5 4						
Sodium ppm ASTM D5185m >216 4 4	Sodium ppm	ASTM D5185m	>216			
Potassium ppm ASTM D5185m >20 3 2	Potassium ppm	ASTM D5185m	>20	3	2	
INFRA-RED method limit/base current history1 history2	INFRA-RED	method	limit/base	current	history1	history2
Soot % % *ASTM D7844 >3 1.1 0.8						
				10.5	10.1	
	Sulfation Abs/.1mm	*ASTM D7415	>30	21.1	22.4	
	FLUID DEGRADATION	method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.1 22.4	Oxidation Abs/.1mm	*ASTM D7414	>25	15.1	14.6	
Sulfation Abs/.1mm *ASTM D7415 >30 21.1 22.4 FLUID DEGRADATION method limit/base current history1 history2	Base Number (BN) mg KOH/g	ASTM D2896	8.5	7.1	9.6	

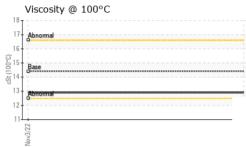




OIL ANALYSIS REPORT

VISUAL





	VISUAL		method	iimii/base	current	nistory i	nistory2
	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	
23		scalar	*Visual	NORML	NORML	NORML	
Jan 31/23	Odor	scalar	*Visual	NORML	NORML	NORML	
7	Emulsified Water					NEG	
		scalar	*Visual	>0.2	NEG		
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPERT		method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.9	
	GRAPHS						
	Ferrous Alloys			record			
	35 - iron		- Constant on the owned the				
	30- nickel						
	25						
	la 20						
	15-						
	10-						
	5-						
	0						
	Nav3/22			Jan 31/23			
	Nov			Jan3			
	Non-ferrous Metal	s					
	¹⁰						
	copper						
	8 - tin						
	6						
	ш dd						
	4-						
	2						
	Z-						
	0	Noussand and and and and and and and and and	and the strength of the state	R. Barnetter			
	22			/23			
	13/						
	Nov3/22			Jan31/23			
	Viscosity @ 100°C	;			Base Number		
	Viscosity @ 100°C	:		14.0	Base Number		
	Viscosity @ 100°C	:		14.0			
	Viscosity @ 100°C	;		14.0			
	Viscosity @ 100°C	;		14.0	Abnormal		
	Viscosity @ 100°C	2		14.0	Abnormal		
	Viscosity @ 100°C			14.0	Abnormal Base		
	Viscosity @ 100°C			14.0	Abnormal Base		
	Viscosity @ 100°C			14.0 12.0 (0)H010.0 (0)H01	Abnormal Base		
	Viscosity @ 100°C			14.0 12.0 (0)H010.0 (0)H01	Abnormal Base		
	Viscosity @ 100°C			14.0 12.0 (D)H10.0 (D	Abnormal Base		



* - Denotes test m Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)