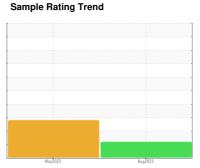


OIL ANALYSIS REPORT

LAKE CALUMET DOOSAN G35NC-7 37-01 (S/N FGA17-1290-00128)

Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- GAL)





DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

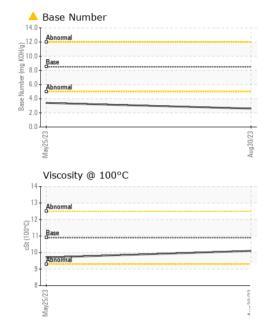
Fluid Condition

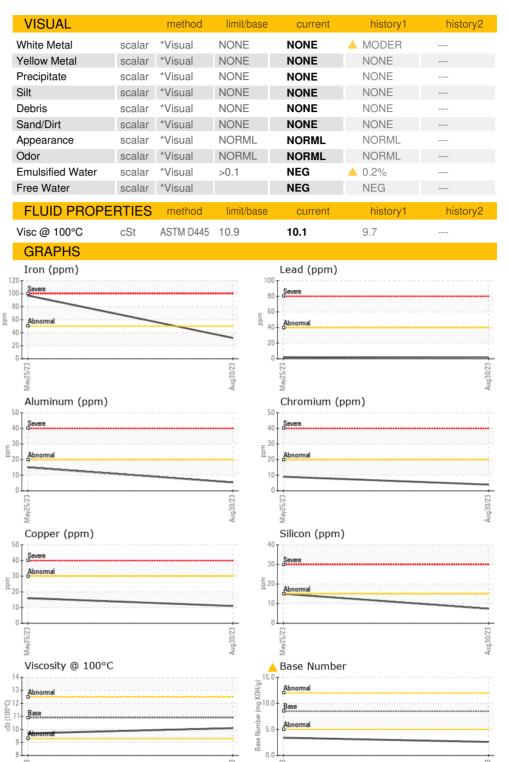
The BN level is low. The condition of the oil is acceptable for the time in service.

			May2023	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105664	PCA0097266	
Sample Date		Client Info		30 Aug 2023	25 May 2023	
Machine Age	hrs	Client Info		4059	3743	
Oil Age	hrs	Client Info		500	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	32	97	
Chromium	ppm	ASTM D5185m	>20	4	9	
Nickel	ppm	ASTM D5185m	>5	<1	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	15	
Lead	ppm	ASTM D5185m	>40	1	2	
Copper	ppm	ASTM D5185m	>30	11	16	
Tin	ppm	ASTM D5185m	>15	4	6	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	34	15	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	61	68	
Manganese	ppm	ASTM D5185m		1	3	
Magnesium	ppm	ASTM D5185m	450	478	559	
Calcium	ppm	ASTM D5185m	3000	907	1580	
Phosphorus	ppm	ASTM D5185m	1150	524	717	
Zinc	ppm	ASTM D5185m	1350	692	985	
Sulfur	ppm	ASTM D5185m	4250	2121	3698	
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	7	15	
Sodium	ppm	ASTM D5185m		3	5	
Potassium	ppm	ASTM D5185m	>20	1	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	16.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	29.9	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.4	19.4	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	2.6	3.4	
(-)	0					



OIL ANALYSIS REPORT









Laboratory Sample No.

Lab Number : 06076506 Unique Number : 10858597

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0105664

Tested Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

Received : 01 Feb 2024 : 01 Feb 2024

: 02 Feb 2024 - Don Baldridge

NORTH AMERICAN STEVEDORING CO 9301 S KREITER AVE

CHICAGO, IL US 60617

Contact: PACO MARTINEZ paco.martinez@qsl.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

T:

F: