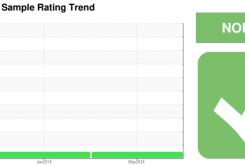


OIL ANALYSIS REPORT

DODT







Machine Id CATERPILLAR 262 CAT 262

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Complet Number Client Info PCA0124646 PCAM27265 Client Info 31 May 2024 10 Jan 2018 Client Info 5681 574 Client Info 1 0 Changed N/A Client Info 1 0 Changed N/A Client Info Client	AE 15W40 (G	AL)		Jan 2018	May2024		
Client Info Sample Date Client Info S681 574	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 1	Sample Number		Client Info		PCA0124646	PCAM27265	
Dil Changed	Sample Date		Client Info		31 May 2024	10 Jan 2018	
Changed Client Info Changed N/A NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history history history water WC Method S <1.0 <1.0	Machine Age	hrs	Client Info		5681	574	
CONTAMINATION	Oil Age	hrs	Client Info		1	0	
CONTAMINATION method limit/base current history1 history	Oil Changed		Client Info		Changed	N/A	
Wildle	Sample Status				NORMAL	NORMAL	
Water Gilycol WC Method >0.2 NEG NEG	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	-uel		WC Method	>5	<1.0	<1.0	
WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >20 0 1 Chromium ppm ASTM D5185m >20 0 1 Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >40 0 3 Acad ppm ASTM D5185m >330 <1	Water		WC Method	>0.2	NEG	NEG	
Chromium	Glycol		WC Method		NEG	NEG	
Chromium ppm ASTM D5185m >20 0 1	WEAR METAL	.S	method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>100	7	29	
Description	Chromium	ppm	ASTM D5185m	>20	0	1	
Saliver	Nickel	ppm	ASTM D5185m	>2	0	1	
Aluminum	Titanium	ppm	ASTM D5185m	>2	0	<1	
Deed	Silver	ppm	ASTM D5185m	>2	0	0	
Copper	Aluminum	ppm	ASTM D5185m	>25	1	4	
Proceedings Proceedings Process Proces	_ead	ppm	ASTM D5185m	>40	0	3	
Antimony ppm ASTM D5185m >15 0 0 0	Copper	ppm	ASTM D5185m	>330	<1	6	
Anadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 250 2 37 Barium ppm ASTM D5185m 10 <1 <1 Molybdenum ppm ASTM D5185m 100 60 56 Magnesium ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 450 1001 1035 Phosphorus ppm ASTM D5185m 3000 1217 2226 Phosphorus ppm ASTM D5185m 1350 1334 1357 Pictors ppm ASTM D5185m 4250 3673 3642 CONTAMINANTS method limit/base current history1		ppm	ASTM D5185m	>15	0	0	
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history3 Boron ppm ASTM D5185m 250 2 37 Barium ppm ASTM D5185m 10 <1 <1 Wolybdenum ppm ASTM D5185m 100 60 56 Wanganese ppm ASTM D5185m 100 <1 Magnesium ppm ASTM D5185m 450 1001 1035 Phosphorus ppm ASTM D5185m 3000 1217 2226 Phosphorus ppm ASTM D5185m 1350 1334 1357 Zinc ppm ASTM D5185m 250 3673 3642 CONTAMINANTS method limit/base current	Antimony	ppm	ASTM D5185m			0	
ADDITIVES	Vanadium		ASTM D5185m		0	0	
Soron ppm ASTM D5185m 250 2 37	Cadmium	ppm	ASTM D5185m		0	0	
Sarium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 100 60 56 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	250	2	37	
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 450 1001 1035 Calcium ppm ASTM D5185m 3000 1217 2226 Phosphorus ppm ASTM D5185m 1150 1054 1136 Zinc ppm ASTM D5185m 1350 1334 1357 Sulfur ppm ASTM D5185m 4250 3673 3642 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 7 9 Sodium ppm ASTM D5185m >158 <1	Barium	ppm	ASTM D5185m	10	<1	<1	
Magnesium ppm ASTM D5185m 450 1001 1035 Calcium ppm ASTM D5185m 3000 1217 2226 Phosphorus ppm ASTM D5185m 1150 1054 1136 Zinc ppm ASTM D5185m 1350 1334 1357 Sulfur ppm ASTM D5185m 4250 3673 3642 CONTAMINANTS method limit/base current history1 history1 Solicon ppm ASTM D5185m >25 7 9 Sodium ppm ASTM D5185m >158 <1	Molybdenum	ppm	ASTM D5185m	100	60	56	
Calcium ppm ASTM D5185m 3000 1217 2226 Phosphorus ppm ASTM D5185m 1150 1054 1136 Zinc ppm ASTM D5185m 1350 1334 1357 Sulfur ppm ASTM D5185m 4250 3673 3642 CONTAMINANTS method limit/base current history1 history Solicon ppm ASTM D5185m >25 7 9 Sodium ppm ASTM D5185m >158 <1	Manganese	ppm	ASTM D5185m		0	<1	
Phosphorus ppm ASTM D5185m 1150 1054 1136 Zinc ppm ASTM D5185m 1350 1334 1357 Sulfur ppm ASTM D5185m 4250 3673 3642 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 7 9 Sodium ppm ASTM D5185m >158 <1	Magnesium	ppm	ASTM D5185m	450	1001	1035	
Phosphorus ppm ASTM D5185m 1150 1054 1136 Zinc ppm ASTM D5185m 1350 1334 1357 Sulfur ppm ASTM D5185m 4250 3673 3642 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 7 9 Sodium ppm ASTM D5185m >158 <1	Calcium		ASTM D5185m	3000	1217	2226	
Time	Phosphorus			1150	1054	1136	
Sulfur ppm ASTM D5185m 4250 3673 3642 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 7 9 Sodium ppm ASTM D5185m >158 <1 7 Potassium ppm ASTM D5185m >20 0 4 INFRA-RED method limit/base current history1 history Soot % % *ASTM D7844 >3 0.3 0.3 Soulfation Abs/cm *ASTM D7624 >20 6.5 8 FLUID DEGRADATION method limit/base current history1 history Dxidation Abs/.1mm *ASTM D7414 >25 15.4 15.	Zinc		ASTM D5185m	1350	1334	1357	
Solition ppm ASTM D5185m >25 7 9	Sulfur						
Sodium	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 6.5 8. Sulfation Abs/.1mm *ASTM D7415 >30 19.3 19. FLUID DEGRADATION method limit/base current history1 history Dxidation Abs/.1mm *ASTM D7414 >25 15.4 15.	Silicon	ppm	ASTM D5185m	>25	7	9	
INFRA-RED	Sodium	ppm	ASTM D5185m	>158	<1	7	
Soot %	Potassium	ppm	ASTM D5185m	>20	0	4	
Nitration Abs/cm *ASTM D7624 >20 6.5 8. Sulfation Abs/.1mm *ASTM D7615 >30 19.3 19. FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 15.4 15.	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.3 19. FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 15.4 15.	Soot %	%	*ASTM D7844	>3	0.3	0.3	
Sulfation Abs/.1mm *ASTM D7415 >30 19.3 19. FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm *ASTM D7414 >25 15.4 15.	Nitration	Abs/cm	*ASTM D7624	>20	6.5	8.	
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.	
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.	
	Base Number (BN)	mg KOH/a	ASTM D2896	8.5			



OIL ANALYSIS REPORT





Certificate 12367

Laboratory

Sample No. **Lab Number** : 06200342

Test Package : MOB 2

: PCA0124646 Unique Number : 11062465

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024 **Tested** : 06 Jun 2024 Diagnosed

: 06 Jun 2024 - Wes Davis

3000 W 139TH ST BLUE ISLAND, IL US 60406

Contact: SERGIO FERNANDEZ sfernandez@scrapmetalservices.com

SCRAP METAL SERVICES NON-FERROUS DIVISION

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)

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F: