

Acid Number (AN)

mg KOH/g ASTM D974*

Materials Handling/NE Pedestal Crane WPD471231 CRANE PEDESTAL NORTH EAST Component

2 Distribution Gear MOBIL MOBILUBE HD 80W90 (---)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

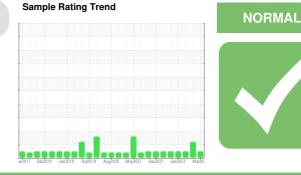
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP	PP13897519	PP13891525
Sample Date		Client Info		27 Mar 2024	01 Jul 2023	03 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	MARGINAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>200	1	8	0
Iron	ppm	ASTM D5185(m)	>185	39	12	16
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>35	<1	2	3
Copper	ppm	ASTM D5185(m)	>35	1	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		132	105	110
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	<1	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		2	1	0
Calcium	ppm	ASTM D5185(m)		29	46	47
Phosphorus	ppm	ASTM D5185(m)		908	847	891
Zinc	ppm	ASTM D5185(m)		32	21	18
Sulfur	ppm	ASTM D5185(m)		19861	14865	15237
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	3	1	2
Sodium	ppm	ASTM D5185(m)		2	2	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1

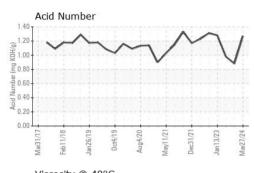
1.27

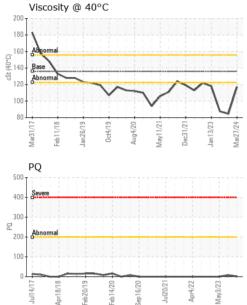
0.98

0.88



OIL ANALYSIS REPORT





			VISUAL		method	limit/base	current	history1	history2
~/	~	11	White Metal	scalar	Visual*	NONE	NONE	🔺 VLITE	NONE
		V	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
	1111		Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
			Silt	scalar	Visual*	NONE	NONE	NONE	NONE
		1	Debris	scalar	Visual*	NONE	VLITE	VLITE	NONE
		<u></u>	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
0ct4/19 Aug4/20 May11/21	Dec31/21	Jan 13/23 Mar27/24	Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
u Au Ma	De	Jar Ma	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
			Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
			Free Water	scalar	Visual*		NEG	NEG	NEG
			FLUID PROPER	TIES	method	limit/base	current	history1	history2
			Visc @ 40°C	cSt	ASTM D7279(m)	136	117	84.5	87.5
\sim /	\sim	\sum	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Aug4/20	Dec31/21	Jan 13/23	Color						
			Bottom						
			PrtFilter				no image		no image
Sep16/20 Sep16/20 Jul20/21	Apr4/22	May3/23	GRAPHS				DO.		
ς α,		2	Ferrous Alloys			45	PQ		
			e 40 - iron chromium			40	Severe		
			E 20 nickel		\wedge				
					\sim \sim				
				120		30			
				Aug4/20	May11/21 7 Dec31/21	47 47 12 12 12 12 12 12 12 12 12 12 12 12 12	10 -		
					Dec31/21	30	10		
			و1/18 دار 19 8//11 مع 19/92 سعر 19/92 مع 19/92 مع 19/92 مع 19/92 مع 19/92 مع 19/92 مع 10/92 مع 10/92		Dec31/21	30 97 17 17 17 17 17 17 17 17 17 17 17 17 17	10 - 10 - 10 - Abnormal		
			0 LIVIE 81/11 81/11 81/11 81/11 81/11 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		May/1/21 Dec3/21 Jan13/23	30 67/127m 02 20	10 - 10 - 10 - Abnomal		
			و1/18 دار 19 8//11 مع 19/92 سعر 19/92 مع 19/92 مع 19/92 مع 19/92 مع 19/92 مع 19/92 مع 10/92 مع 10/92		Dec31/2/1	30 67//2ш М 20 15 10	10 - 10 - 10 - Abnomal		
			0 LIVICEW Non-ferrous Meta	ls		470/222 W 225 200 15 10 5	0		
			0 LIVICEW Non-ferrous Meta	ls		470/222 W 225 200 15 10 5	0	4.20 6.20 00.21	4122
			Fability Bender the second sec	ls	May11/21 May	472/62 pp 25 472/62 pp 26 20 15 10 5	10	Feb14.20	Apri/22 Mar/J23
			Non-ferrous Meta ⁰ ¹ ¹ ¹ ¹ ¹ ¹ ¹ ¹	ls		+7/1/2 m +7/1/2	Acid Numbo		Apr4/22 May3/23
			Non-ferrous Meta Mon-ferrous Meta	ls		+7/1/2 m +7/1/2	Acid Numbo		Apr4/22 Mar/3/23
			Non-ferrous Meta Mon-ferrous Meta	ls		+7/1/2 m +7/1/2	Acid Numbo		Apr4/22 May3/23
			Non-ferrous Meta	ls		+7/1/2 m +7/1/2	Acid Numbo		Apri/22 May3/23
			Non-ferrous Meta ^{61/9500} Non-ferrous Meta ⁶⁰ 	Aug4/20	May11/21-1 Dec31/21-	47/1/22mW 90/1/2 47/1/22mW 90/1/22mW 90/1/2	Acid Numbe	r 	\sim
			Non-ferrous Meta ^{61/9500} Non-ferrous Meta ⁶⁰ 	Aug4/20	May11/21-1 Dec31/21-	47/1/27200 47/1/272000 47/1/272000 47/1/272000 47/1/272000 47/1/272000 4	Acid Numbe	r 	\sim
	Sam	oratory ple No.	Non-ferrous Meta	Is OZIFBINK 5 Appleby Recei	E2021 Lange + 12/12 + 12/12	+7//22mW +7//22mW +7//22mW (PHO) +7//22	Acid Number Acid	r	+72/12/18
ISO 17025:2017	Sam Lab	oratory ple No. Number	Non-ferrous Meta Non-ferrous Meta Ultrup Viscosity @ 40°C Ultrup Viscosity @ 40°C Ultrup Viscosity @ 40°C Ultrup Uscosity @ 40°C Ultrup Uscosity @ 40°C	Is OZHENNY 5 Appleby Recei Teste	E2021 Lange U211 Line U211 Line	Billing of the second s	Acid Number Acid Number Acid Number Hebron-M	r 61/9+0 ExxonMobil Ca	nada East Ltd. Suite 1000, 100 New Gow St. John`s, NL
Testing Accreditation No. 1005018	Sam Lab I Uniqu	oratory ple No. Number e Number	Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Coopert Strength of the strength of	Is 021/60my 5 Appleby Recei Teste Diagr	E2021 Lange T271 Line y Line, Burlin ived : 22 ed : 0	+7//22mW +7//22mW +7//22mW (PHO) +7//22	Acid Number Acid Number Acid Number Hebron-M	r 	nada East Ltd. Suite 1000, 100 New Gow St. John`s, NL CA A1C 6K3
SO 17025:2017 Accredited Laboratory	Sam Lab Uniqu Test	pratory ple No. Number e Number Package	Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C 000000 100 100 100 100 100 100	Is OZHBINY 5 Appleby Recei Teste Diagr ests: TAN	czcluer tz/l/em y Line, Burlir ived : 22 ed : 0	Apr 2024 - Kev	Acid Number Acid Number Acid Number Hebron-W Win Marson	r 	nada East Ltd. Suite 1000, 100 New Gow St. John`s, NL CA A1C 6K3 act: Liam Maher
so 17025:2017 Accredited Laboratory o discuss this est denoted (Sam Lab Uniqu Test s samp (*) outs	pratory ple No. Number Package ele report, ide scop	Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Coopert Strength of the strength of	Is OZHBMY 5 Appleby Receinests: TAN vice at 1-8 method models	y Line, Burlin ived : 28 ed : 07 nosed : 01 I Man) 300-268-213 polified, (e) te	Apr 2024 - Ker 1. 50 10 10 10 10 10 10 10 10 10 1	Acid Numbe Acid Numbe Acid Numbe Hebron-M vin Marson rnal lab.	r 	nada East Ltd. Suite 1000, 100 New Gow St. John`s, NL CA A1C 6K3 act: Liam Maher

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